

THIRD-ORDER LEVELING
NATIONAL GEODETIC VERTICAL DATUM OF 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

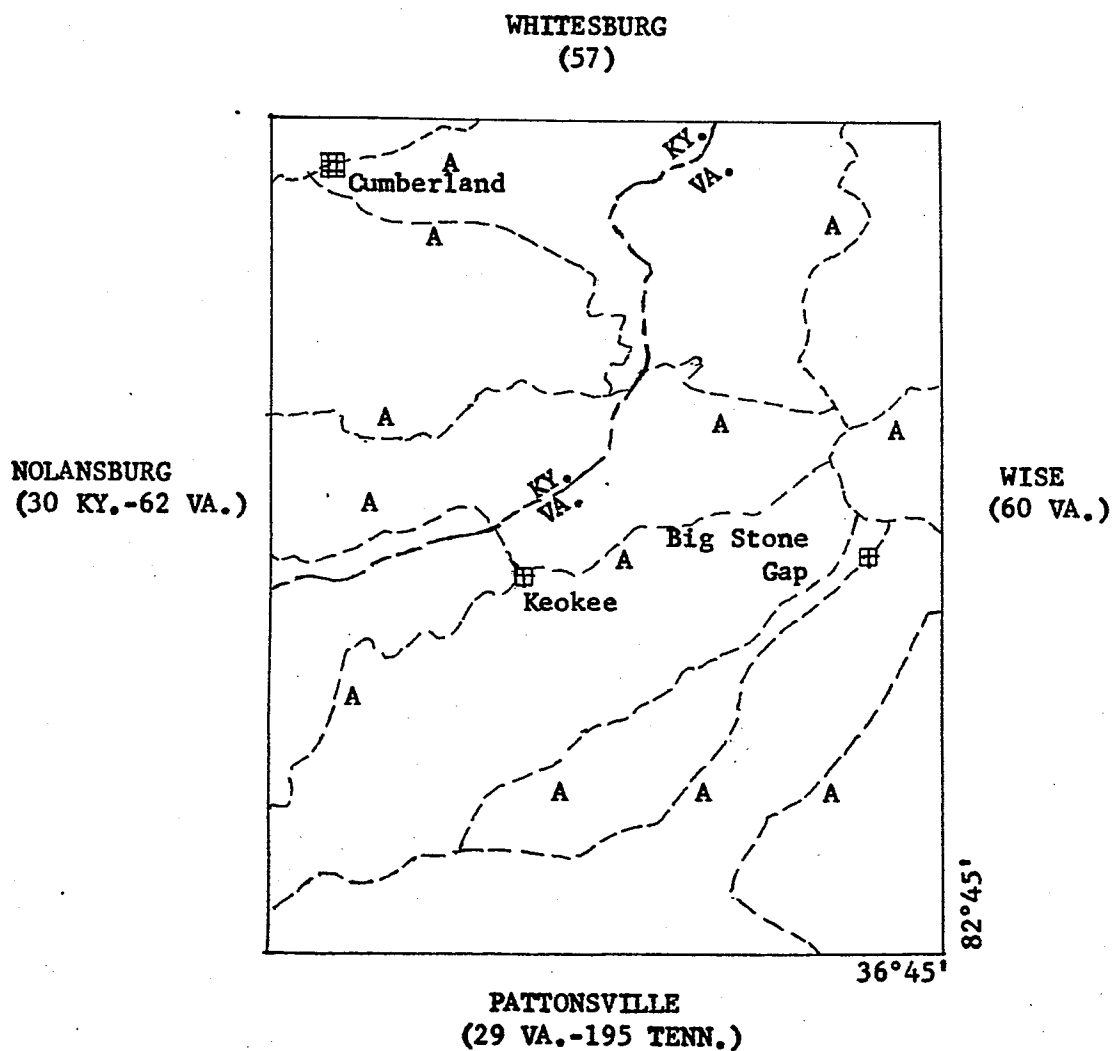
36-082-44
BIG STONE GAP QUADRANGLE
61 VA.-29 KY.
N3645-W8245/15
DIAGRAM NJ 17-10
JOHNSON CITY

Harlan and Letcher Counties, Ky.; Lee,
Scott, and Wise Counties, Va.

Final adjustment of 1976

Edition of 9/14/76

PR: FJK/kp



NGS (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle 360824

61 VA.-29 KY.
BIG STONE GAP QUADRANGLE

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ISOLATED BENCH MARKS (By S. R. Archer, 1915; Book A9766)

Feet

Poor Fork, 3.43 mi NE. of; 225 ft N. of residence of J. W. Hall; 90 ft N. and 80 ft W. of small branch from SW.; 80 ft W. of rd.; 175 ft below and 100 ft W. of wagon ford of Poor Fork; on W. side of river in rear of J. W. Hall's barn; in top of sandstone rock; standard tablet stamped "1486 KY"

1486.566

Klondike Post Office, 6.37 mi E. of, about 0.15 mi W. of rd. forks (rd. to S. leads over mountain to head of Jones Creek); 250 ft N. and 50 ft W. of mouth of Heads Creek; 160 ft S. of dwelling house occupied by Frank Short; on W. side of private rd. leading to dwelling; inside of field fence; 10 ft S. of SW. corner of old log shop; in top of sandstone rock; standard tablet stamped "1920 KY"

1920.041

By S. R. Archer, 1916; Book A9766

Robbins Chapel Church, at what is known as Crab Orchard; 3.1 mi N. of Purcell station, on Jones Creek; 140 ft S. and 130 ft E. of store of E. E. Parson; 130 ft E. of rd. in small drain; 30 ft S. of SE. corner of old school building, opposite church; in sandstone rock; standard tablet stamped "1887 VA" (Not found, 1953).

1887.659

Pennington Gap, 2.7 mi NW. along U. S. Highway 421 from junction of Alternate U. S. Highway 58, thence about 3.8 mi NE. along State Highway 606; at overpass of Southern RR. over rd. and North Fork of Powell River; 4.5 ft N. of N. rail; about 105 ft W. of, and about 35 ft higher than level of black top rd.; about 1 ft below level of track; in top of N. end of W. concrete abutment of RR. overpass; standard tablet stamped "1600 VA" (Tied by NGS, 1953). (Reported mutilated but solid and stamped "1599.836" by NGS, in 1956)

1599.836

By Fred McLaughlin, 1916; Book B516

Milepost 14; in concrete base; standard tablet stamped "1604"

1605.573

Milepost 11; in concrete base; standard tablet stamped "1859"

1859.960

Milepost 8; in concrete base; standard tablet stamped "1702"

1701.966

Big Stone Gap, 2.0 mi E. of station; 300 ft W. of milepost N-12; at point where RR. crosses Powell River; in N. end of E. abutment of Louisville & Nashville RR. overhead bridge; standard tablet stamped "1580"

1580.279

ISOLATED BENCH MARKS (Cont'd.)Feet

By S. R. Archer, 1920; Book B598

Appalachia, 1.2 mi NE. of; 400 ft W. of milepost N-9; 15 ft S. of track; in top of large rock; standard tablet stamped "1699 B 35 1912"

1669.148

Big Stone Gap, on Wood Avenue; at entrance steps of post office; in top of W. stone newel; standard tablet stamped "VIRGINIA 1488 1920" (Tied by NGS, 1934)

1488.045

Big Stone Gap, about 1.0 mi SW. of Louisville & Nashville RR. station; in cut; 15 ft SE. of track; in large rock; standard tablet stamped "1463 B 37 1912" (Reported damaged, 1934) (Tied by NGS, 1934)

1462.402

Big Stone Gap, 4.0 mi SW. of L. & N. RR. station; 75 ft N. of milepost N-18; 20 ft W. of track; in top of loose rock resting on ground; standard tablet stamped "1460 B 38 1912"

1459.821

Appalachia, 1.7 mi N. of; along hwy. bridge over mouth of Preacher Creek; in top of E. end of parapet wall of N. concrete abutment; standard tablet stamped "1689 VIRGINIA 1920"

1688.694

Stonega, along Stonega-Appalachia rd.; 0.1 mi NE. of school; 0.3 mi SW. of Stonega Coke and Coal Company store; 7 ft SW. of centerline of rd. and about 1 ft below bridge floor; in top of SW. end of SE. concrete abutment of narrow steel bridge over Callahan Creek; standard tablet stamped "1827 VIRGINIA 1920" (Tied by NGS, 1953) (Reported badly battered and stamped "1827.247" by NGS in 1956)

1827.247

Stonega, 2.0 mi N. of; 1.0 mi N. of Stonega Coke & Coal Co. store No. 2; at last main forks of Callahan Creek; 220 ft W. of ford of W. fork of creek; 300 ft W. of junction of creeks; on S. side of point between forks; on N. side of W. fork; 5 ft above water level; in face of rock outcrop; standard tablet stamped "2044 VIRGINIA 1920"

2044.064

Exeter, 2.05 mi E. along State Highway 68 from church and store; about 0.1 mi W. of crossing of Sou. RR.; 9 ft S. of, and about 1.5 ft higher than centerline of hwy.; in top of center of S. concrete headwall of 20-ft concrete bridge over mouth of Laurel Fork; standard tablet stamped "1801 VIRGINIA 1920" (Tied by NGS, 1953) (Recovered and stamped "1801.092" by NGS in 1956)

1801.092

ISOLATED BENCH MARKS (Cont'd)Feet

- Exeter, 0.25 mi W. along State Highway 68 from church and store; 8.5 ft S. of, and about 1.5 ft higher than centerline of hwy.; in top of center of S. concrete headwall of concrete bridge over Pigeon Creek; standard tablet stamped "1972 VIRGINIA 1920" (Tied by NGS, 1953) (Reported badly mutilated and stamped "1972.243" by NGS in 1956) 1972.243
- Keokee, 1.2 mi E. along State Highway 606 from high school; at junction of State Highway 623 leading SE.; 31 ft SE. of centerline of Highway 606; 16 ft NE. of centerline of Highway 623; 4.5 ft E. of E. end of 15-in. corrugated pipe culvert under rd. SE.; in top of slanting layer of rock outcrop projecting out of cut bank and about level with rds.; standard tablet stamped "2061 VIRGINIA 1920" (Tied by NGS, 1953) (Reported mutilated but solid and stamped "2061.193" by NGS in 1956) 2061.193
- Keokee, 2.05 mi SW. along State Highway 606 from high school; about 0.1 mi SW. and at right angle across rd. from cemetery; at crossing of steel tower power transmission line; 10 ft SE. of center of power transmission line; about 15 ft NW. of SE. end of rock cut and about 6.5 ft higher than rd.; standard tablet stamped "2102 VIRGINIA 1920" (Tied by NGS, 1953) (Reported mutilated but solid and stamped "2102.332" by NGS in 1956) 2102.332
- Keokee, 5.15 mi SW. along State Highway 606 from high school, thence about 0.1 mi S. along State Highway 626 following Cox Creek; 29 ft E. of centerline of Highway 626; 4 ft E. of wire fence; 41 ft S. of SW. corner of wooden coal chute; 29 ft SE. of center of junction of drive W. over bridge over Cox Creek to farm; in top of small flat rock outcrop at NW. edge of group of outcrops and about 3.5 ft higher than level of rd.; standard tablet stamped "1943 VIRGINIA 1920" (Tied by NGS, 1953) (Reported mutilated but solid and stamped "1942.742" by NGS in 1956) 1942.742
- Cumberland, about 0.1 mi W. along Louisville and Nashville RR. from station; 15 ft N. of N. rail; 1 ft S. of N. end of abutment and about 8 ft lower than level of track; standard tablet stamped "1430 KY" (Tied by NGS, 1934) (Reported stamped "1430.276" by NGS in 1956) 1430.276
- Benham, 0.9 mi E. of station; 230 ft W. of minedump; 30 ft S. of RR. track in point of hill; in sandstone outcrop; standard tablet (probably stamped "P 1 1926") (Not found, 1954) 1633.791
- Lynch, 1.43 mi S. of, along Gap Branch; 20 ft E. of center of rd.; in sandstone outcrop; standard tablet stamped "P 2 1926" 2528.370

FeetISOLATED BENCH MARKS (Cont'd.)

Lynch, 4.8 mi SW. of, along Clover Lick Creek; 5.9 mi SE. of
Cumberland; 450 ft E. of residence of Betsy Hall; 230 ft
E. of point where log barns stands; on N. side of rd.; 25
ft E. of point where path leaves rd.; 30 ft N. of bank of
creek; 6 ft N. of center of rd.; in sandstone outcrop;
standard tablet stamped "P 3 1926" (Reported destroyed, 1954)

1921.971

Cumberland, 3.1 mi S. of, along Clover Lick Creek; 20 ft E.
of creek; 10 ft W. of rd.; in large sandstone outcrop;
standard tablet stamped "P 4 1926"

1574.374

HORIZONTAL CONTROL
NORTH AMERICAN DATUM OF 1927

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JOHNSON CITY

Harlan and Letcher Counties, Kentucky
Lee, Scott and Wise Counties, Virginia

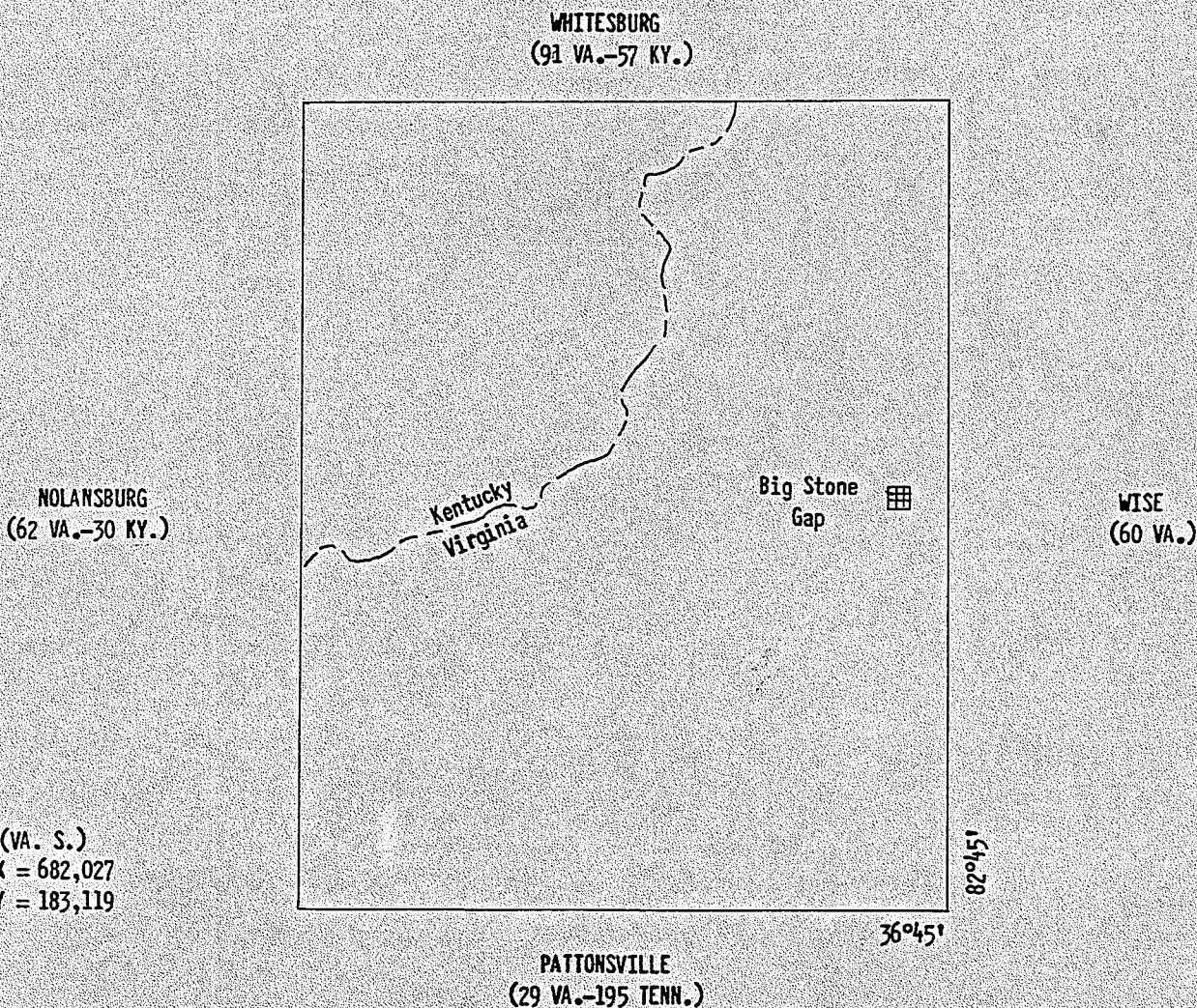
Only the permanent marks are
listed for control classified
obsolete and are not shown on
sketch

Edition of 5/29/75

PR: JH/rmc

Plane coordinates are based on Lambert projection,
Virginia and Kentucky, South Zones

NCIC



(VA. S.)
X = 682,027
Y = 183,119

DISCLAIMER

We no longer attest to the validity of the positions listed for horizontal control established by transit traverse procedures. This control is now considered OBSOLETE and is included in this list for the purpose of identification only.

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BIG STONE GAP QUADRANGLE

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INDEX OF PERMANENT MARKS

MARK (USGS)

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TT 4 JRH 1953 1921.952
TT 7 JRH 1953

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61 VA.-29 KY.
BIG STONE GAP QUADRANGLE

36-082-44

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STATION DESCRIPTION
PLANE COORDINATES, FEET

LATITUDE
° ' "

LONGITUDE
° ' "

The following positions are considered OBSOLETE. To be used only to locate permanent marks in the field.

J. R. Harris, 1953; Book AH 320

Holmes Mill, 1.8 mi E. of post office, along State Highway 38; 15 ft W. of, and 1 ft higher than centerline of hwy.; in S. end of W. concrete headwall of culvert from Heads Creek; standard tablet stamped "TT 4 JRH 1953 1921.952"

VA. S.) X = 691,504

Y = 225,435

36 52 02.41

82 58 28.33

Homes Mill, 4.1 mi E. of post office, along Louisville and Nashville Railroad; 460 ft W. of centerline of State Highway 38 at RR. crossing; in SE. concrete abutment of RR. bridge over Clover Fork Cumberland River; standard tablet stamped "TT 7 JRH 1953"

VA. S.) X = 701,693

Y = 227,500

36 52 27.56

82 56 24.28

6100a - # 29 Ky. Big Stone Gap QD

NCIC

Station: DOUBLES

County: Harlan

State: Ky.

Observer: U.S. Coal & Coke Co. Year:

Datum: Prelim. 1927 N.A.D.

Description:

PRELIMINARY
PUBLICATION COPY

Located about 7.0 mi. S. of Lynch, Ky., on the Doubles of Big Black and Little Black Mtns. It is best reached from Lynch by taking the Linden Trail up Big Looney Creek to top of Big Black Mtn., thence turning to right and following top of mountain about 1000 yds. to the doubles of said mountains, thence turning to the left about 125 yds. to the station.

Station Mark: A round piece of steel driven in the ground about 40 ft. from a 20-in. chestnut oak.

Reference marks: (1) Bolt set with babbitt in a 3- by 6-ft. sandstone under edge of mountain - Distance 31.94 ft. - B.T.M. azimuth $131^{\circ}19'$. (2) Bolt set with babbitt in a 2- by $3\frac{1}{2}$ -ft. sandstone rock on top of middle ridge - Distance 90.73 ft. - B.T.M. azimuth $221^{\circ}24'$.

Plane Coordinates on Kentucky Lambert System (South Zone)

X = 2,839,722

Y = 221,995

[Latitude 36 54 28.86

Longitude 82 52 39.23]

To Station—	Azimuth ° ' "	Back Azimuth ° ' "	Distance	
			Log. Meters	Miles
			30.45	82.45

State: Ky.

Observer: Stonega Coal Co. Year:

Datum: Prelim. 1927 N.A.D.

Déscription :

~~PRELIMINARY~~

Located on rock on point of ridge of Big Black Mountain,
north of Clover Fork Store. Station is a copper bolt in triangle.

PUBLICATION COPY

Reference mark 1: 5.3' SW. to 8-in. chestnut stump.
Reference mark 2: 14.9' NW. to 12-in. oak stump.
Reference mark 3: 15.9' NW. to 14-in. oak stump.
Reference mark 4: 29.4' NE. to 10-in. chestnut stump.

Plane Coordinates on Kentucky Lambert System (South Zone)

$$X = 2,827,518$$
$$Y = 219,843$$

[Latitude 36 54 11.23

Longitude 82 55 10.22 1

To Station—	Azimuth ° ' "	Back Azimuth ° ' "	Distance	
			Log. Meters	Miles
				<div data-bbox="1456 1768 1563 1902"> 36-44 80-81 </div>